

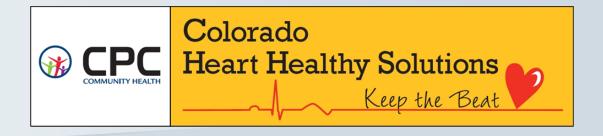
Community Health Worker Model:

A Collaborative Approach to Cardiovascular Health

Amy Bubar, MPH September 8, 2011

CHHS Program Staff

- Mori Krantz, MD, Co-investigator
- Elizabeth Whitley, PhD, Co-investigator
- Stephanie Coronel, MPH, CHES: Senior Program Manager
- Amy Bubar, MPH: Project Manager



Program Goal

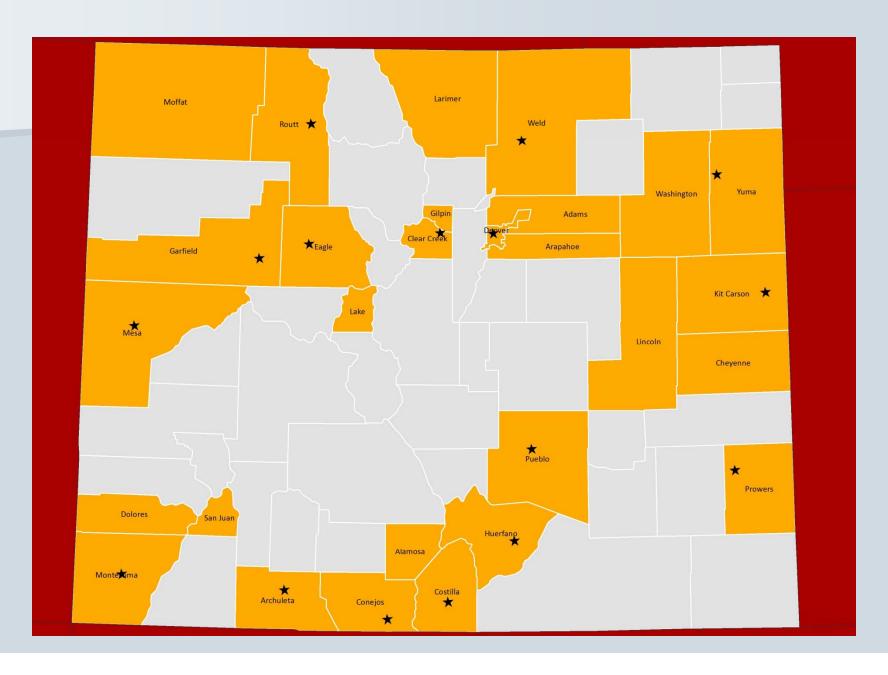
Improve Cardiovascular Health of Adults in Colorado Communities

CHHS Community Health Workers....

An integral piece of the puzzle



Current CHHS Communities

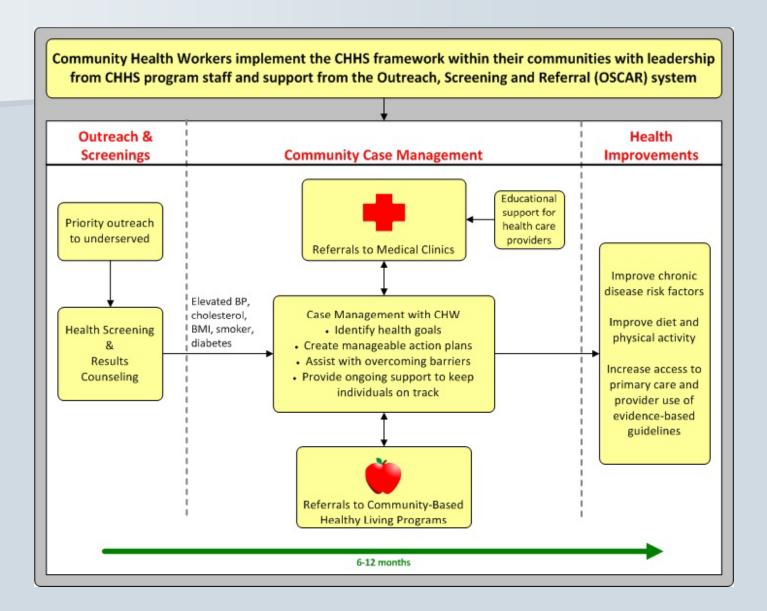


Current CHHS Partners

- 6 local public health agencies
- 5 community hospitals
- 1 community health centers
- 1 visiting nurse association
- 1 area health education center

Partners
Clear Creek County Public Health
Costilla County Public Health Agency
Conejos County Hospital
Denver Health Community Voices
High Plains Community Health Center
Kit Carson County Health & Human Services
Montezuma County Health Department
Mesa County Health Department
Northwest Colorado Visiting Nurse Association
Pagosa Springs Medical Center
San Luis Valley Area Health Education Center
Spanish Peaks Regional Health Center
Vail Valley Medical Center
Yuma District Hospital

CHHS Model



Unique focus on local community resources

- Work through CHWs to reach at-risk community members
- Employ CHWs through local agencies
- Refer at-risk individuals to local health care providers and/or healthy living resources
- Accommodate referrals from health care providers
- Increase capacity of local programs



CHWs conduct screenings and retests...



...Individually in the Office



...In Small Groups in the Community such as Barbershops



...In Large Groups in the Community

Outreach, Screening and Referral System (OSCAR)



Foundation for OSCAR Outputs

- American Heart Association
- NCEP ATP III Target Calculator
- JNC 7
- Colorado Clinical Guidelines Collaborative

Sample Provider Letter



Montezuma County Health Department 970-565-3056

Karen Dickson Community Health Worker

Lori Cooper, RN Director, Montezuma County Public Health Department

Colorado Prevention Center 303-860-9900

Mori Krantz, MD Director, Prevention Programs Cardiologist, Denver Health Project Director, CHHS

Ray Estacio, MD Sr. Scientist, Prevention Programs Internist, Deriver Health

Matt Guy, MPA Community Health Coordinator Montezuma County Liaison

Community Voices 303-436-4070

Liz Whitley, PhD, RN Director, Denver Health Community Voices

Program website: www.hearthealthysolutions.org

Framingham risk assessment: www.health-e-solutions.org Southwest Internal Medicine Dr. Robin Page 111 N. Park Ave. Cortez, CO 81321 February 11, 2009

Regarding: Patient's name

DOB: 99/99/99

Dear Dr. Page,

The following individual participated in a free cardiovascular and cholesterol screening held at the Montezuma County Public Health Department on 2/6/09. Below are the individual's screening results:

- Fasting: no
- Blood pressure= 121/92 mmHg
- Total cholesterol= 270 mg/dL
- HDL= 94 mg/dL
- LDL= 155 mg/dL
- Triglycerides= 106 mg/dL
- Glucose= 108 mg/dL
- Smoking status= non-smoker
- BMI: 29
- Framingham risk score=5% (<10%=low, 10-20%=moderate, >20%=high)

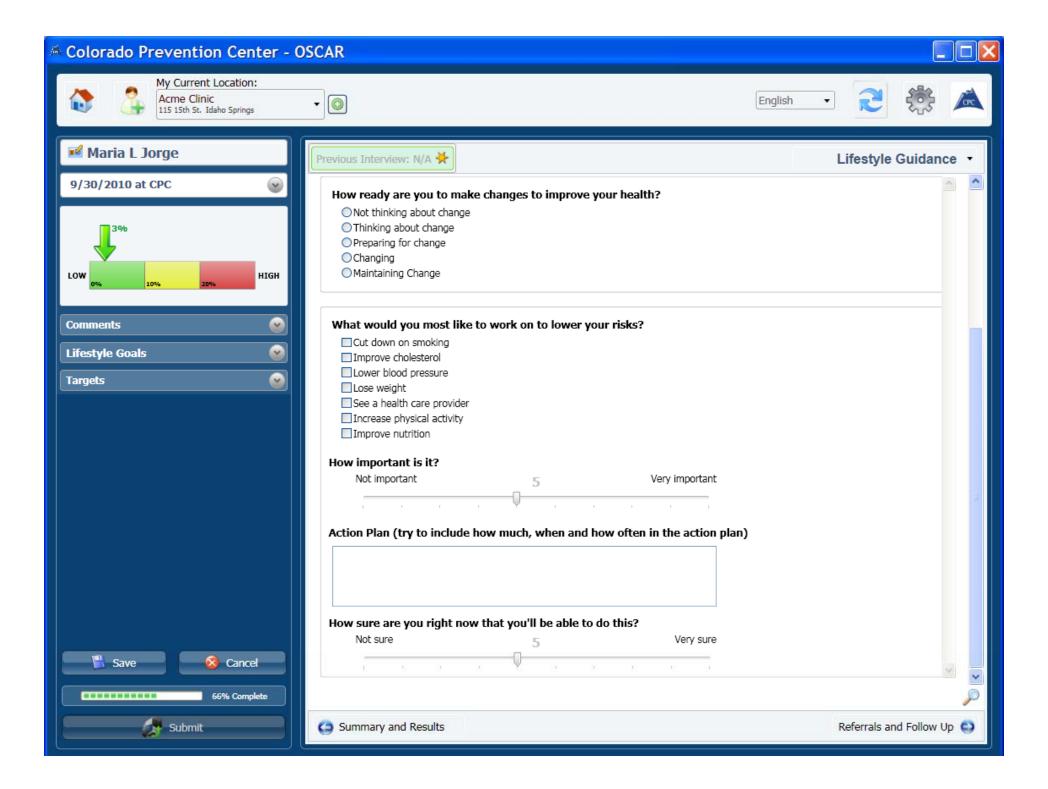
Colorado Heart Healthy Solutions is a cardiovascular screening and referral program that employs a Community Health Worker in your region. The Community Health Worker screens individuals for high blood pressure, high cholesterol levels, smoking status and elevated BMI. Our program goal is to identify at-risk individuals and refer them to a medical provider in order to address their identified risk(s).

If you have any questions regarding Colorado Heart Healthy Solutions or the screening and referral process please do not he sitate to contact me at 970-565-3056 ext, 255 or kdickson@co.montezuma.co.us.

Thank you for your assistance in the referral process for Colorado Heart Healthy Solutions. It is through strong partnerships with excellent medical providers that together, we can reduce cardiovascular disease in Colorado.

Sincerely,

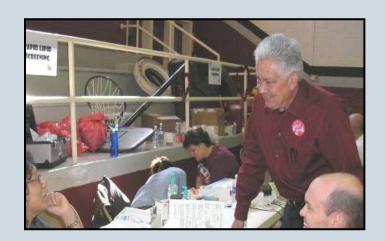
Karen Dickson Community Health Worker



Demographics of Clients Served

July 2010 - June 2011

- Clients Screened: 3,443
- 90% underserved*
- 63% at-risk for CVD



*Underserved=ethnic minorities, the poor, those with less education, un- or under-insured and those who live far from resources in rural and frontier communities.

Risk Profile of Clients Served

July 2010 – June 2011

- At-risk Clients Identified: 2,159
- Risk Profile:



At-risk for CVD*	63%
Blood Pressure above normal	26%
Cholesterol above normal	45%
BMI above normal	61%
Smoker	14%

^{*}At-risk = clients with moderate or high Framingham risk scores (>10%) or those with an abnormal risk factors

CHHS Outcomes

July 2010 – June 2011

At-risk clients returning for retest: 2,907

Mean time from screening to retest: 14 months

Clinical Outcomes

	Baseline (mean ± SD)	Change from baseline (mean)
Total Cholesterol	$207 \pm 41 \mathrm{mg/dL}$	-10.6
LDL Cholesterol	$126 \pm 37 \text{mg/dL}$	-15.7
Systolic BP	130 ± 18 mmHg	-4.6
Framingham Risk Score	10 ± 10%	-0.5

CHHS Outcomes

July 2010 – June 2011

Behavioral Outcomes

	% Improved
Decreased Fat Intake	27%
Increased Fiber Intake	16%
Increased Physical Activity	28%

The CHW Model: A Shared Approach

- Proven effective
- Community presence and client rapport
- Knowledge & experience
- Clinic/public health agency-based
- Existing partnerships
- Comprehensive database of client information

For more information:

- www.cpccommunityhealth.org
- Amy Bubar, MPH
 - amy.bubar@cpccommunityhealth.org
 - (303)860-9900